

wherein said transformer is adapted to be operated only at a frequency that is less than a resonant frequency of said transformer, said frequency being between 300 kHz and 20 MHz.

C1  
Cont. 4. A coreless printed circuit board transformer comprising first and second windings deposited on a printed circuit board, said second winding being deposited on a side of said circuit board that is opposed to a side of said circuit board whereon said first winding is deposited, wherein said transformer is adapted to be operated by a high-frequency carrier signal modulated by a low-frequency switching signal, and wherein said transformer is adapted to be operated only at a frequency that is less than a resonant frequency of said transformer.

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C2 7. A coreless printed circuit board transformer comprising first and second windings deposited on a printed circuit board, said second winding being deposited on a side of said circuit board that is opposed to a side of said circuit board whereon said first winding is deposited, further comprising means for adjusting a resonant frequency of the transformer, wherein said transformer is adapted to be operated only at a frequency that is less than said resonant frequency of said transformer.

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C3 27. A coreless printed circuit board transformer comprising first and second windings deposited on a printed circuit board, said second winding being deposited on a side of said circuit board that is opposed to a side of said circuit board whereon said first winding is deposited, wherein said transformer is adapted to be operated at an optimum frequency, said optimum frequency being a frequency near a frequency at which an impedance of a transformer equivalent circuit is at a maximum, and wherein said transformer is adapted to be operated only at a frequency that is less than a resonant frequency of said transformer, said frequency being from 100 kHz to at least 20 MHz.

28. A coreless printed circuit board transformer comprising first and second windings deposited on a printed circuit board, said second winding being deposited on a side of said circuit board that is opposed to a side of said circuit board whereon said first winding is deposited, wherein said transformer is adapted to be operated at an optimum frequency, said optimum

frequency being a frequency near a frequency at which an impedance of a transformer equivalent circuit is at a maximum, and wherein said transformer is adapted to be operated by a high-frequency carrier signal modulated by a low-frequency switching signal, said carrier signal being at a frequency corresponding to a maximum impedance of the transformer, and wherein said transformer is adapted to be operated only at a frequency that is less than a resonant frequency of said transformer.

C3  
Cmt

29. A coreless printed circuit board transformer comprising first and second windings deposited on a printed circuit board, said second winding being deposited on a side of said circuit board that is opposed to a side of said circuit board whereon said first winding is deposited, wherein said transformer is adapted to be operated at an optimum frequency, said optimum frequency being a frequency at which an impedance of a transformer equivalent circuit of said transformer is a maximum, and wherein said transformer is adapted to be operated only at a frequency that is less than a resonant frequency of said transformer, said frequency being from 100 kHz to at least 20 MHz.

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C4

36. A coreless printed circuit board transformer comprising first and second windings deposited on a printed circuit board, said second winding being deposited on a side of said circuit board that is opposed to a side of said circuit board whereon said first winding is deposited, wherein said transformer is adapted to be operated at an optimum frequency, said optimum frequency being a frequency at which an impedance of said transformer is a maximum, and wherein said transformer is adapted to be operated only at a frequency that is less than a resonant frequency of said transformer.

37. A coreless printed circuit board transformer comprising first and second windings deposited on a printed circuit board, said second winding being deposited on a side of said circuit board that is opposed to a side of said circuit board whereon said first winding is deposited, wherein said transformer is adapted to be operated at an optimum frequency, said optimum frequency being a frequency at which an impedance of a transformer equivalent circuit of said transformer is a maximum, wherein said optimum frequency is between 300 kHz and 20 MHz,

C4  
cont. and wherein said transformer is adapted to be operated only at a frequency that is less than a resonant frequency of said transformer.

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C5 39. A coreless printed circuit board transformer comprising first and second windings deposited on a printed circuit board, said second winding being deposited on a side of said circuit board that is opposed to a side of said circuit board whereon said first winding is deposited, wherein said transformer is adapted to be operated at an optimum frequency, said optimum frequency being a frequency at which an impedance of a transformer equivalent circuit of said transformer is a maximum, further comprising means for adjusting said optimum frequency, and wherein said transformer is adapted to be operated only at a frequency that is less than a resonant frequency of said transformer.

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